

| Exploring Aeronautics | | | |
|---------------------------------------|-------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2003 Mathematics | | | |
| Standard Course of Study | | | |
| North Carolina Mathematics | | | |
| Grade 5 | | | |
| Activity/Lesson | State | Standards | |
| Fundamentals of Aeronautics (145-176) | NC | MA.5.2.02 | Identify, estimate, and measure the angles of plane figures using appropriate tools. |
| Fundamentals of Aeronautics (145-176) | NC | MA.5.4.02 | Compare and contrast different representations of the same data; discuss the effectiveness of each representation. |
| Airplane Control(209-256) | NC | MA.5.2.02 | Identify, estimate, and measure the angles of plane figures using appropriate tools. |
| Tools of Aeronautics(257-326) | NC | MA.5.1.03 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| The Tools of Aeronautics | NC | MA.5.1.03 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| The Resource Center | NC | MA.5.1.01.c | Compare and order rational numbers. |
| Science of Flight | NC | MA.5.1.03 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| Integrating with Aeronautics | NC | MA.5.1.01.a | Connect model, number word, and number using a variety of representations. |
| Integrating with Aeronautics | NC | MA.5.1.01.d | Make estimates of rational numbers in appropriate situations. |
| Integrating with Aeronautics | NC | MA.5.1.03 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| Integrating with Aeronautics | NC | MA.5.2.02 | Identify, estimate, and measure the angles of plane figures using appropriate tools. |
| Integrating with Aeronautics | NC | MA.5.5.02 | Use algebraic expressions, patterns, and one-step equations and inequalities to solve problems. |
| Scientific Method(124-144) | NC | MA.5.4.02 | Compare and contrast different representations of the same data; discuss the effectiveness of each representation. |
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| Exploring Aeronautics | | | |
| 2003 Mathematics | | | |
| Standard Course of Study | | | |
| North Carolina Mathematics | | | |
| Grade 6 | | | |
| Activity/Lesson | State | Standards | |
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| Fundamentals of Aeronautics (145-176) | NC | MA.6.5.04 | Use graphs, tables, and symbols to model and solve problems involving rates of change and ratios. |
| Wings(177-208) | NC | MA.6.2.01 | Estimate and measure length, perimeter, area, angles, weight, and mass of two- and three-dimensional figures, using appropriate tools. |
| Tools of Aeronautics(257-326) | NC | MA.6.1.07 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| The Tools of Aeronautics | NC | MA.6.1.07 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| Science of Flight | NC | MA.6.1.07 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| Science of Flight | NC | MA.6.2.01 | Estimate and measure length, perimeter, area, angles, weight, and mass of two- and three-dimensional figures, using appropriate tools. |
| Integrating with Aeronautics | NC | MA.6.1.01.a | Connect the model, number word, and number using a variety of representations, including the number line. |
| Integrating with Aeronautics | NC | MA.6.2.01 | Estimate and measure length, perimeter, area, angles, weight, and mass of two- and three-dimensional figures, using appropriate tools. |
| Integrating with Aeronautics | NC | MA.6.5.04 | Use graphs, tables, and symbols to model and solve problems involving rates of change and ratios. |
| Scientific Method(124-144) | NC | MA.6.4.06 | Design and conduct experiments or surveys to solve problems; report and analyze results. |
| Exploring Aeronautics | | | |
| 2003 Mathematics | | | |
| Standard Course of Study | | | |
| North Carolina Mathematics | | | |
| Grade 7 | | | |
| Activity/Lesson | State | Standards | |
| Fundamentals of Aeronautics (145-176) | NC | MA.7.4.01 | Collect, organize, analyze, and display data (including box plots and histograms) to solve problems. |
| Tools of Aeronautics(257-326) | NC | MA.7.1.03 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| The Tools of Aeronautics | NC | MA.7.1.03 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |

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| Science of Flight | NC | MA.7.1.03 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| Integrating with Aeronautics | NC | MA.7.5.01 | Identify, analyze, and create linear relations, sequences, and functions using symbols, graphs, tables, diagrams, and written descriptions. |
| Integrating with Aeronautics | NC | MA.7.5.02 | Translate among different representations of algebraic expressions, equations and inequalities. |
| Integrating with Aeronautics | NC | MA.7.5.03 | Use and evaluate algebraic expressions, linear equations or inequalities to solve problems. |
| 2003 Mathematics | | | |
| Standard Course of Study | | | |
| North Carolina Mathematics | | | |
| Grade 8 | | | |
| Activity/Lesson | State | Standards | |
| Fundamentals of Aeronautics (145-176) | NC | MA.8.4.01 | Collect, organize, analyze, and display data (including scatterplots) to solve problems. |
| Wings(177-208) | NC | MA.8.2.01 | Determine the effect on perimeter, area or volume when one or more dimensions of two- and three-dimensional figures are changed. |
| Tools of Aeronautics(257-326) | NC | MA.8.1.02 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| The Tools of Aeronautics | NC | MA.8.1.02 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| Science of Flight | NC | MA.8.1.02 | Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil. |
| Integrating with Aeronautics | NC | MA.8.3.02 | Apply geometric properties and relationships, including the Pythagorean theorem, to solve problems. |
| Integrating with Aeronautics | NC | MA.8.5.01.d | Interpret and compare properties of linear functions from tables, graphs, or equations. |